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APPLICATION NO.	FILING DA	ATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/827,330	04/20/2004		Akifumi Nakamura	26102	2932
20529	7590 0	7/31/2006		EXAMINER	
NATH & ASSOCIATES				HODGES, MATTHEW P	
112 South West Street Alexandria, VA 22314				ART UNIT	PAPER NUMBER
				2879	
				DATE MAILED: 07/31/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		T A	1 6 10	_				
		Application No.	Applicant(s)					
	Office Action Summan	10/827,330	NAKAMURA, AKIFUMI					
	Office Action Summary	Examiner	Art Unit					
		Matt P. Hodges	2879					
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover sheet with the	correspondence address					
WHI(- Exte after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING D nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	NATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be ting will apply and will expire SIX (6) MONTHS from the application to become ABANDONE	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).					
Status								
1)	Responsive to communication(s) filed on 10 N	May 2006						
2a)□		s action is non-final.						
3)□								
ت(۵	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
		ex parte quayre, 1000 O.D. 11, 4	00 0.0. 210.					
Disposit	ion of Claims							
4)⊠	☑ Claim(s) <u>1-11</u> is/are pending in the application.							
	4a) Of the above claim(s) <u>1-6</u> is/are withdrawn from consideration.							
5)□	Claim(s) is/are allowed.							
6)⊠	Claim(s) <u>7-11</u> is/are rejected.							
7)								
8)□	Claim(s) are subject to restriction and/o	or election requirement.						
Applicat	ion Papers							
9)	The specification is objected to by the Examine	ar						
	The drawing(s) filed on 20 April 2004 is/are: a		by the Examiner					
,—	Applicant may not request that any objection to the							
	Replacement drawing sheet(s) including the correct	- · ·	• •					
11)	The oath or declaration is objected to by the Ex							
		Number Note the attached Office	Action of format 10-152.					
Priority (ınder 35 U.S.C. § 119							
a)l	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureasee the attached detailed Office action for a list	is have been received. Is have been received in Application of the second rity documents have been received to the second (PCT Rule 17.2(a)).	ion No ed in this National Stage					
Attachmen	t(s) e of References Cited (PTO-892)	4) 🗀 Intention Sur-	(PTO 412)					
2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summary Paper No(s)/Mail Da						
3) 🔯 Inforr	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date <u>6/18/2004</u> .	5) Notice of Informal F 6) Other:	atent Application (PTO-152)					

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DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of group II in the reply filed on 5/10/2006 is acknowledged.

Specification

The disclosure is objected to because of the following informalities:

Page 2, line 32 appears to contain a typographical error. The word "desiccant" appears to be misspelled.

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 7-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Hung et al. (US 6,140,763).

Regarding claims 7 and 8, Hung discloses (see figure 3) an organic EL device including in order a substrate (302), an anode (304), an organic layer (320) including a light emitting layer

(324), and a combined cathode layer (330 and 310). The cathode layer is further divided into a buffer layer with an alkali metal included and a low resistance metal layer also including the alkali metal. (Column 10 lines 40-67). The alkali metal is Cs while the low resistance metal is Al.

Regarding claim 9, claim 9 is rejected for the same reasons as stated in the rejection of claim 7 above. The further limitations on the compounds are still only alternatively required with respect to the limitation of claim 7.

Regarding claim 10, Hung further discloses the width of the buffer layer with included alkali ions being between 15nm thick. (Column 14 lines 20-25).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hung et al. (US 6,140,763).

Regarding claim 11, Hung discloses the device as claimed (see rejection of claim 7 above) but does not appear to specify the width of the low resistance metal layer being 200nm. However the applicant fails to identify the use of a 200 nm low resistance layer to solve any problem or yield any unexpected result that is not within in the scope of the teachings relied upon. Further selection of the width of the cathode is dependent on the desired resistance of the

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final device along with the surface area covered by the cathode. The effect of the width on these values is well understood and varying the width of the low resistance cathode to control these attributes would require only routine experimentation by one having ordinary skill in the art.

Thus it would have been an obvious design choice to one having ordinary skill in the art to use a 200 nm low resistance layer in the device as disclosed by Hung, since such a modification would only require routing experimentation of known attributes and values.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Strite (US 6,023,073) discloses the use of a multi-part cathode structure.

Kido et al. (US 6,013,384) discloses the use of a metal doped layer in addition to a low resistance metal layer in the cathode.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matt P Hodges whose telephone number is (571) 272-2454. The examiner can normally be reached on 7:30 AM to 4:00 PM M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel can be reached on (571) 272-2457. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

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